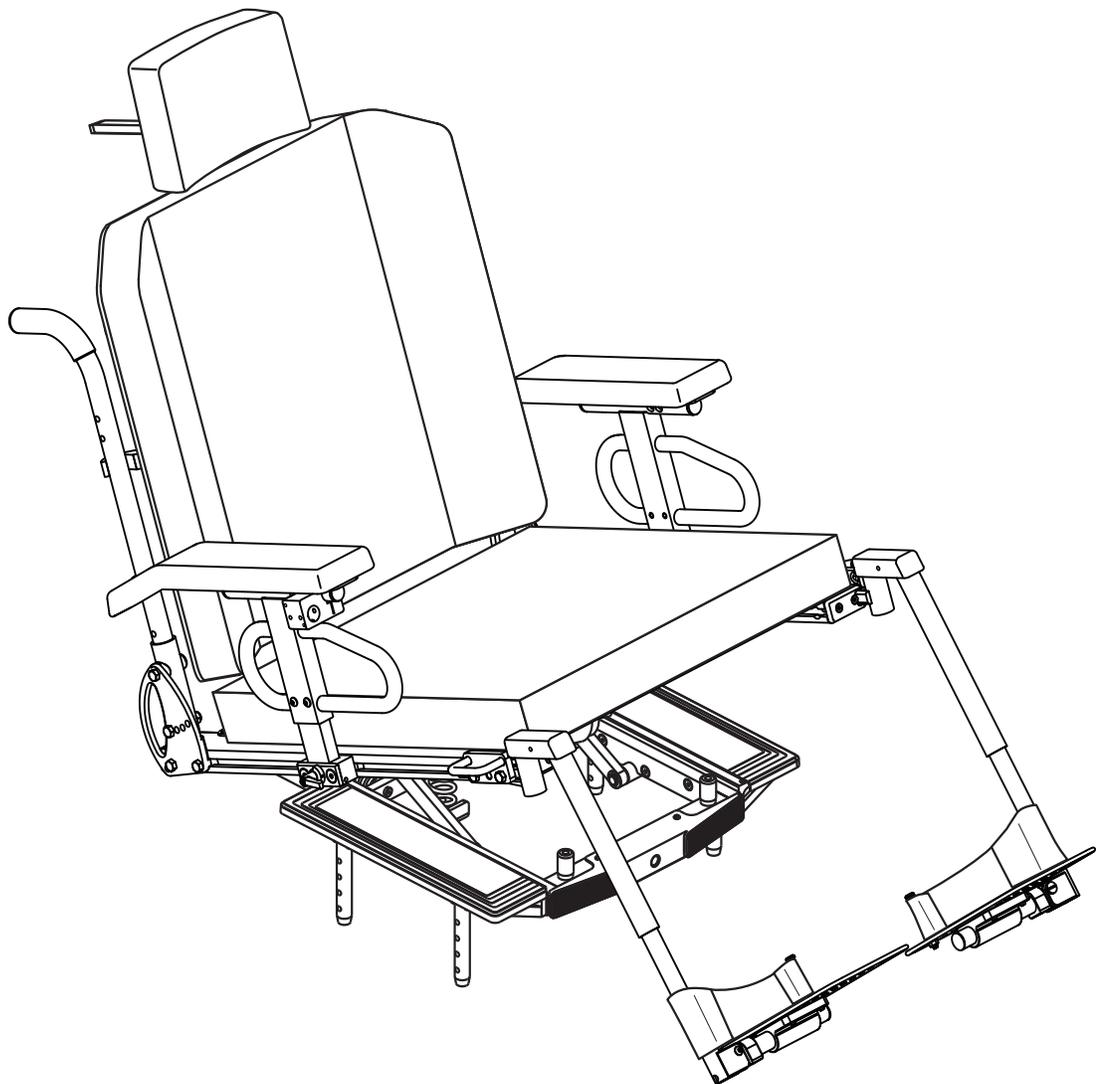




## *Basic Operation Instructions*

# TRU-Balance<sup>®</sup> Bariatric Power Tilt



## Safety Guidelines

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**WARNING!** A Quantum Rehab Provider or a qualified technician must perform the initial setup of this product and must perform all of the instructions in this manual.

The symbols below are used throughout this owner's manual and on the product to identify warnings and important information. It is very important for you to read them and understand them completely.



**WARNING!** Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage, or malfunction. On the product, this icon is represented as a black symbol on a yellow triangle with a black border.



**MANDATORY!** These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol on a blue dot with a white border.



**PROHIBITED!** These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a black symbol with a red circle and red slash.

**NOTE:** *This owner's manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make changes as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased. The latest/current version of this manual is available on our website.*

**NOTE:** *This product is compliant with WEEE, RoHS, and REACH directives and requirements.*

**NOTE:** *This product meets IPX4 classification (IEC 60529).*

**NOTE:** *This product and its components are not made with natural rubber latex. Consult with the manufacturer regarding any after-market accessories.*



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## Product Safety Symbols

The symbols below are used on the power chair to identify warnings, mandatory actions, and prohibited actions. It is very important for you to read and understand them completely.



Read and follow the information in the owner's manual.



Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.



EMI/RFI—This product has been tested and passed at an immunity level of 20 V/m.



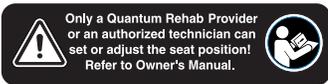
Disposal and recycling—Contact your Quantum Rehab Provider for information on proper disposal and recycling of your Quantum product and its packaging.



Maximum seating weight.



Pinch/crush points created during operation.



Consult your Quantum Rehab Provider before making any changes to your seating system configuration.

WELCOME to Quantum Rehab. The power chair you have purchased combined state-of-the-art components with **safety**, comfort, and styling in mind. We are confident that these design features will provide you with the conveniences you expect during your daily activities. Once you understand how to **safely** operate and care for your power chair, it should give you years of trouble-free operation and service.

**Read** and **follow** all instructions, warnings, and notes in this manual before attempting to operate your power chair for the first time. You must also read all instructions, warnings, and notes contained in any supplemental instructional booklets for the controller, front riggings, and/or seating system that accompanied your power chair before initial operation. Your **safety** depends upon you, as well as your provider, caretaker, or healthcare professional in using good judgement.

If there is any information in this manual which you do not understand, or if you require additional assistance for setup or operation, please contact your Quantum Rehab Provider. **Failure to follow the instructions in this manual and those located on your power chair can lead to personal injury and/or damage to the power chair, including voiding the warranty.**

### **Purchaser's Agreement**

By accepting delivery of this product, you promise that you will not change, alter, or modify the product or remove or render inoperable or unsafe any guards, shields, or other safety features of this product; fail, refuse, or neglect to install any retrofit kits from time to time provided by Quantum to enhance or preserve the safe use of this product.

***NOTE: If you ever lose or misplace your copy of this manual, contact us and we will be glad to send you a new one immediately.***

## The TRU-Balance Bariatric Power Tilt

The TRU-Balance Bariatric Power Tilt is a unique seating system designed specifically for the Quantum Power Chair. It is fully adjustable to meet the individual needs of the user, and it is mounted to a power base to provide maximum maneuverability.

Reusable hook and loop fasteners are included in your owner's package for use in attaching the seat cushion to the seat base. These fasteners are not intended for use on cushions with anti-skid material, as they may damage the seat cushion.

**Figure 1** provides information on the TRU-Balance Bariatric Power Tilt components. Use this diagram to familiarize yourself with the function and location of each component before using the TRU-Balance Bariatric Power Tilt.

## Precautionary Guidelines

Before operating the TRU-Balance Bariatric Power Tilt, please read the following. These guidelines are provided for your benefit and will aid you in the safe operation of the seating system.

- Turn off the power before you are seated in the TRU-Balance Bariatric Power Tilt.
- Always have assistance when you are being seated in the TRU-Balance Bariatric Power Tilt.
- Follow all of the procedures and heed the warnings as explained in your power chair owner's manual.

**WARNING!** The center of gravity of your seating system was factory set to a position that meets the needs of the demographic majority of users. Your Quantum Rehab Provider has evaluated your seating system and made any necessary adjustments to suit your specific requirements. Do not change your seating configuration without first contacting Quantum Rehab or your Quantum Rehab Provider.



**WARNING!** Should the fittings on your seating system become loose, tighten them and report the problem immediately to your Quantum Rehab Provider. Loose, undertightened or overtightened fittings may fail, resulting in property damage and/or personal injury.

**WARNING!** In the event of a loss of power to the power chair, transfer to a safe position, seeking assistance if needed. Contact your Quantum Rehab Provider immediately to report the incident.

**WARNING!** Your seating system is not approved for use as a seat in any vehicle. Use the seats and occupant restraints provided by the manufacturer of the vehicle.



**MANDATORY!** Do not exceed the weight capacity listed in your power chair owner's manual or 600 lbs. (272.2 kg), whichever is less.

## Electromagnetic and Radio Frequency Interference (EMI/RFI)



**WARNING!** Laboratory tests have shown that electromagnetic and radio frequency waves can have an adverse effect on the performance of electrically-powered mobility vehicles.

Electromagnetic and Radio Frequency Interference can come from sources such as cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM) transmitters, wireless computer links, microwave signals, paging transmitters, and medium-range mobile transceivers used by emergency vehicles. In some cases, these waves can cause unintended movement or damage to the control system. Every electrically-powered mobility vehicle has an immunity (or resistance) to EMI. The higher the immunity level, the greater the protection against EMI. This product has been tested and has passed at an immunity level of 20 V/m.



**WARNING!** Be aware that cell phones, two-way radios, laptops, electricity generators or high power sources and other types of radio transmitters may cause unintended movement of your electrically powered mobility vehicle due to EMI. Do not turn ON hand-held personal communication devices, such as citizens band (CB) radios and cellular phones, while the powered wheelchair is turned on. Be aware of nearby transmitters, such as radio or TV stations, and avoid coming into close proximity to them.



**WARNING!** The addition of accessories or components to the electrically-powered mobility vehicle can increase the susceptibility of the vehicle to EMI. Do not modify your power chair in any way not authorized by Pride.

**WARNING!** The electrically-powered mobility vehicle itself can disturb the performance of other electrical devices located nearby, such as alarm systems.

**NOTE:** For further information on EMI/RFI, go to the Resource Center on [www.pridemobility.com](http://www.pridemobility.com). If unintended motion or brake release occurs, turn your power chair off as soon as it is safe to do so. Call your Quantum Rehab Provider to report the incident.

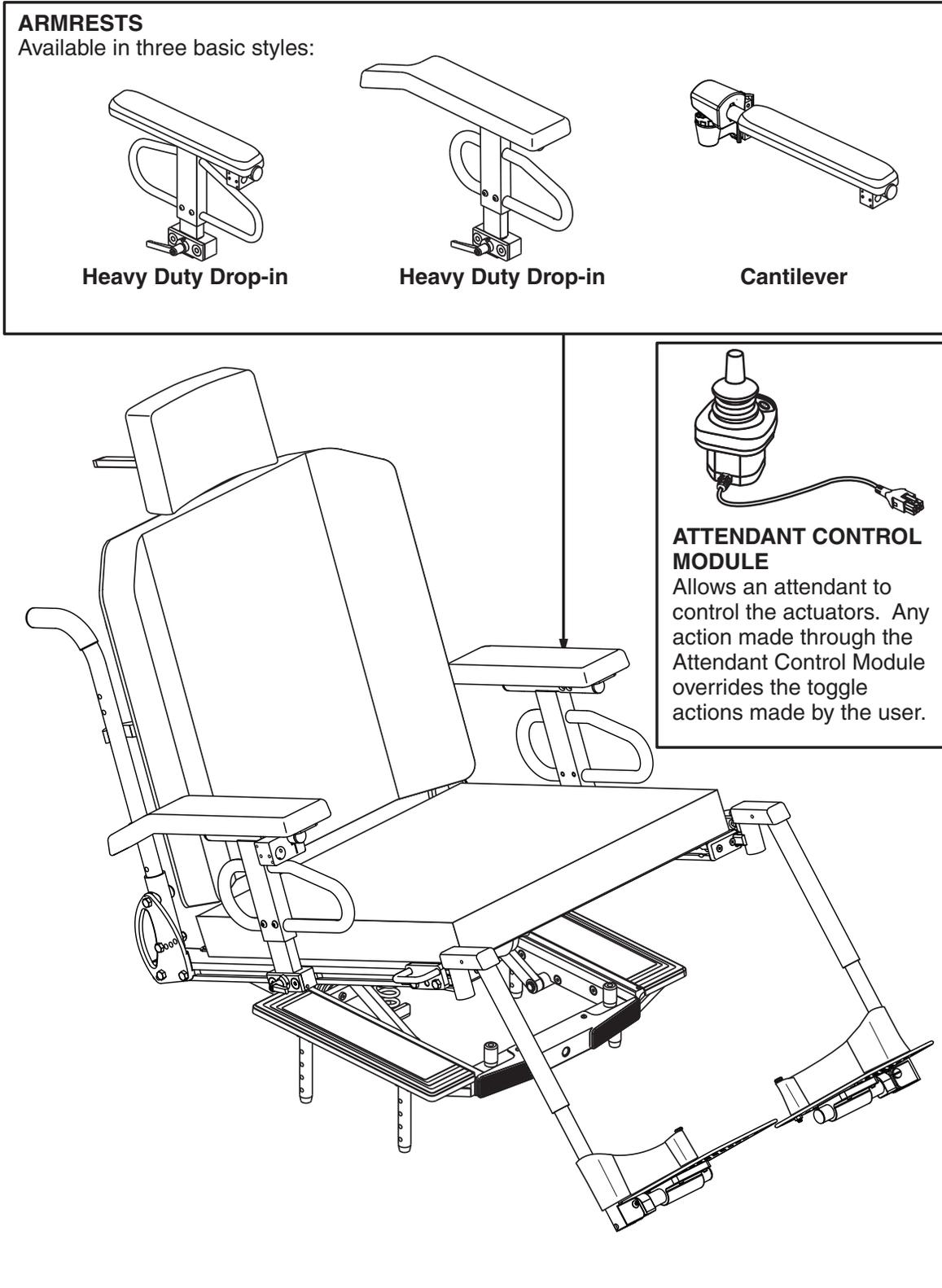


Figure 1. TRU-Balance Bariatric Power Tilt Components



## Operating The TRU-Balance Bariatric Power Tilt

The TRU-Balance Bariatric Power Tilt can be operated through a Q-Logic controller, a specialty controller, or a toggle (see figure 3 or 4).

There is a power inhibit on your TRU-Balance Bariatric Power Tilt which will allow you to drive your power chair at full speed when tilted up to 20°. A full drive inhibit will activate at a predetermined, factory-programmed tilt angle.



**WARNING!** Do not attempt to bypass, remove, reprogram, and/or adjust the full or partial inhibits that are pre-programmed at factory settings. Failure to heed this warning may result in injury.

**WARNING!** Check the immediate area to ensure nothing is trapped in the mechanism before operating the power tilt. Keep area clear prior to and during movement.

**NOTE:** This manual will discuss toggle and joystick operations only. If your TRU-Balance Bariatric Power Tilt is equipped with a different operating device, please refer to the operation manual supplied with that device and/or your power chair owner's manual.

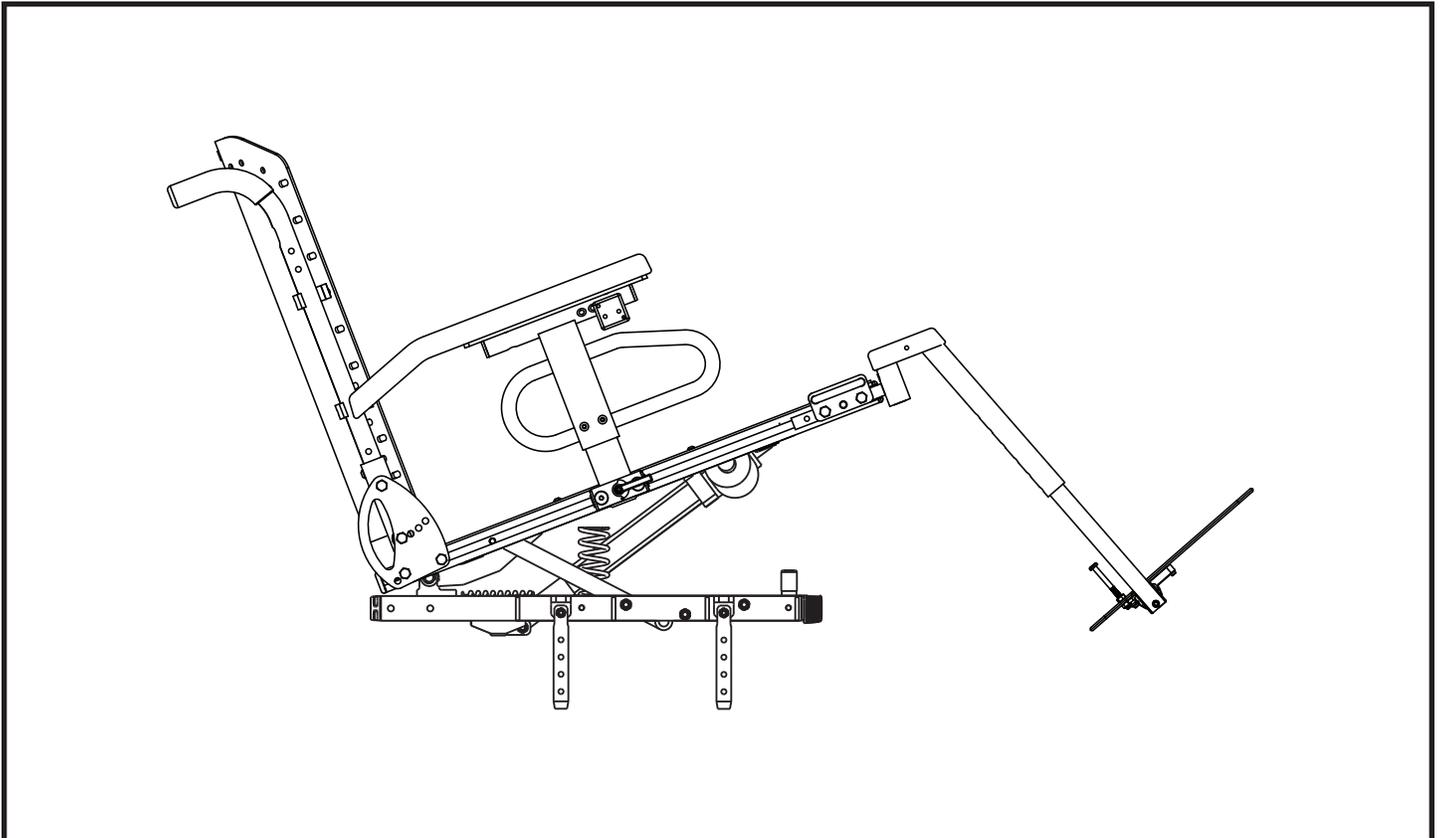


Figure 2. TRU-Balance Bariatric Power Tilt Range of Motion

**NOTE:** Your TRU-Balance Bariatric Power Tilt may be equipped with any number of these input devices.

### Toggle Operation

Your TRU-Balance Bariatric Power Tilt may be equipped with a 2-way toggle.

#### 2-way Toggle

1. To tilt backward, pull the toggle switch backward. **See figure 3.**
2. To return to a sitting position, push the toggle switch forward.

#### Q-Logic Operation

1. Push the On/Off and Mode Select Lever up once to power on the chair and the controller.
2. Push the On/Off and Mode Select Lever up several times until the seat screen is displayed on the LCD or push the key 2 select button once to go directly to actuator mode.
3. Push the joystick to the left or right until the available actuator is illuminated on the actuator indicator. **See figure 4.**
4. When the actuator is selected, give a forward command to the joystick to adjust position in one direction or give a reverse command to the joystick to adjust position in the opposite direction.
5. Push and release the On/Off and Mode Select Lever until you return to the desired drive profile.

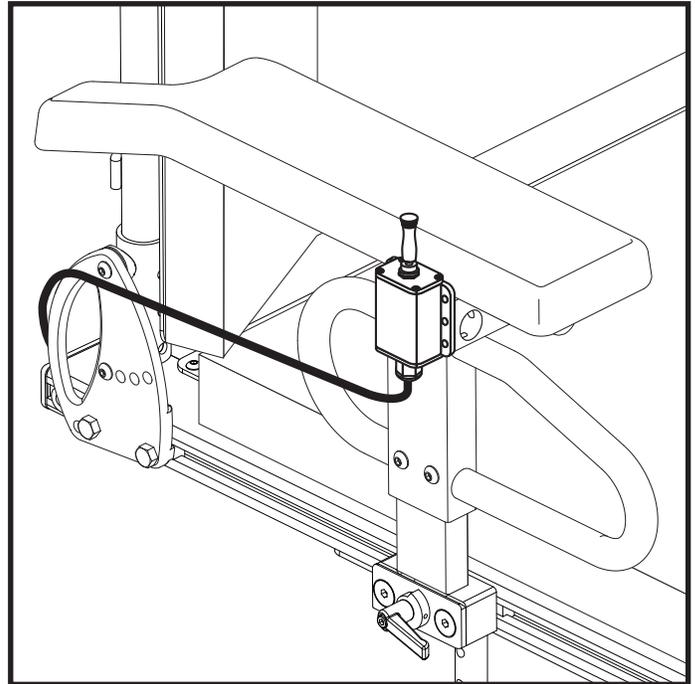


Figure 3. 2-way Toggle Operation



Figure 4. Actuator Mode (Q-Logic)

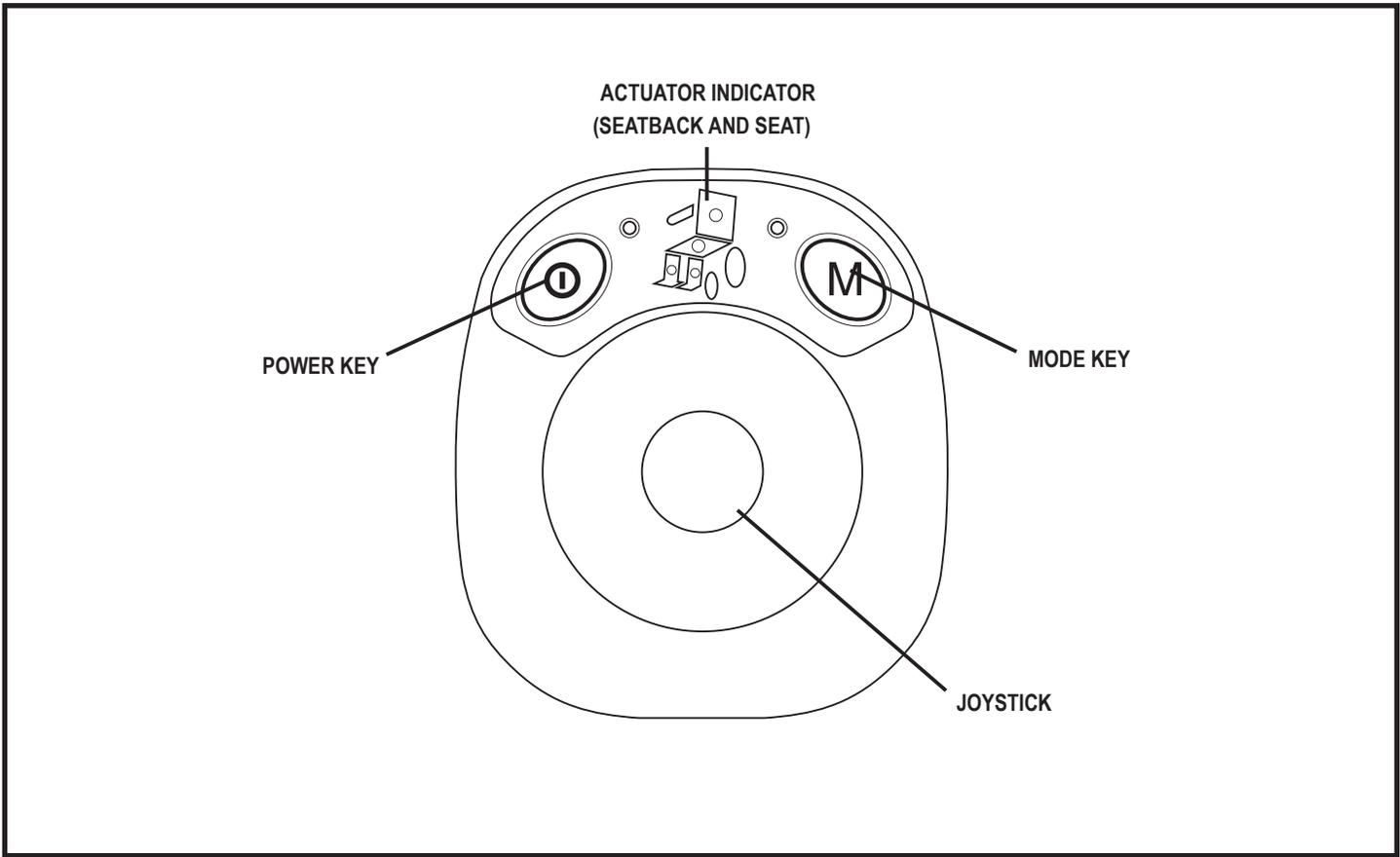


Figure 5. Q-Logic Attendant Control Module

### Q-Logic Attendant Control Module

To adjust the actuator, press the mode key twice and then push the joystick to the right to cycle until the desired actuator is illuminated on the actuator indicator (**see figure 5**). Move the joystick forward or backward to activate the desired actuator.

### Tilt Function

1. Press the power key to power on the module.
2. Press the mode key twice and then push the joystick to the right until the actuators in both the back and seat are illuminated on the actuator indicator on the module. Pull the joystick backward to increase the degree of tilt.
3. To return to a sitting position, ensure the actuators in both the back and seat are illuminated on the actuator indicator, then push the joystick forward to decrease the degree of tilt.

## Armrest Options

The following sections will describe armrest options and the comfort adjustments that can be made to them.

### You may need the following to make comfort adjustments:

- standard hex key set
- standard open-ended wrench
- Phillips screwdriver

**WARNING!** Do not attempt to lift or move your power chair or seating system by any of its removable parts, including the armrest(s), front rigging(s), seat cushions, seatback, shrouds, or controller. Use only solid, non-removable frame components to lift or move your power chair or seating system.



**WARNING!** Avoid putting all of your weight on the power chair armrests and do not use the armrests for weight bearing purposes, such as transfers. Such use may cause the power chair to tip, resulting in a fall from the power chair and personal injury.

**WARNING!** The controller and controller bracket are nonload bearing items on your seating system. Do not use the controller or controller bracket for weight bearing purposes, such as transfers. Such use may cause damage to these components, resulting in a fall from the seating system and personal injury.

## Heavy Duty and Bariatric Drop-in Armrests

The Heavy Duty Drop-in and Bariatric Drop-in Armrests are attached to the seat with an armrest latching mechanism that is fastened to the side rails of the seating system. These armrests can both be removed for easy transfer onto and off of the power chair. The position of the armrest on the chair, as well as the overall height of the armrest, can be adjusted. Both of these armrests adjust in the same way.

### To remove the armrest assembly:

1. Rotate the armrest latch lever rearward. **See figure 6.**
2. Lift up the armrest assembly.

### To install the armrest assembly:

1. Place the armrest assembly into the armrest latch. **See figure 6.**
2. Rotate the armrest latch lever forward.

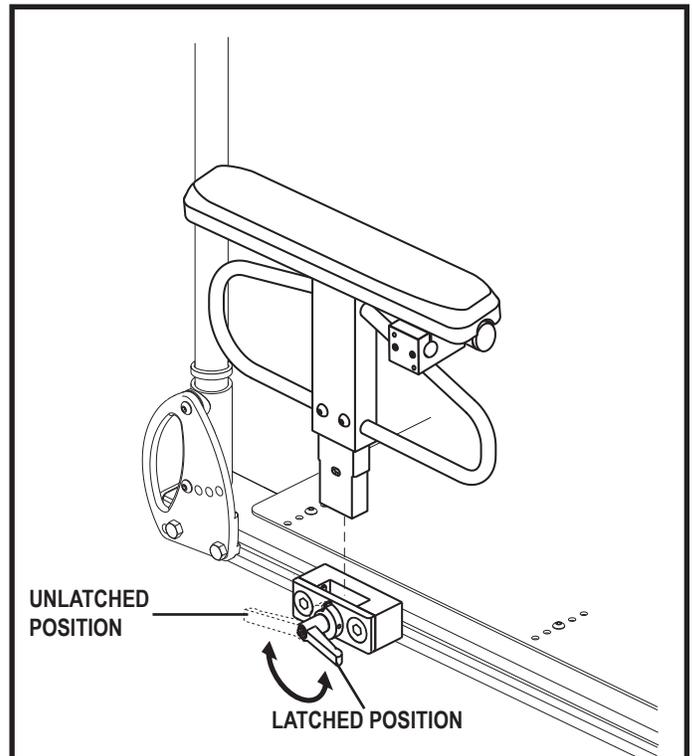


Figure 6. Heavy Duty Drop-in Armrest Removal/Installation

### To adjust the armrest position:

1. Rotate the armrest latch lever rearward and remove the armrest from the armrest latch. **See figure 6.**
2. Loosen the flat head screws that fasten the armrest latch to the seat base side rail. **See figure 8.**
3. Slide the armrest latch forward or rearward along the seat base side rail.
4. Tighten the flat head screws.
5. Install the armrest in the armrest latch and rotate the latch lever forward. **See figure 7.**
6. Repeat for the other side if necessary.

### To adjust the armrest height:

1. Rotate the armrest latch lever rearward and remove the armrest from the armrest latch. **See figure 9.**
2. Remove the two (2) button head cap screws from the side of the armrest.
3. Slide the armrest up or down the detent bar to the desired height.
4. Reinstall the button head cap screws to the side of the armrest.
5. Install the armrest in the armrest latch and rotate the latch lever forward.
6. Repeat for the other armrest if necessary.

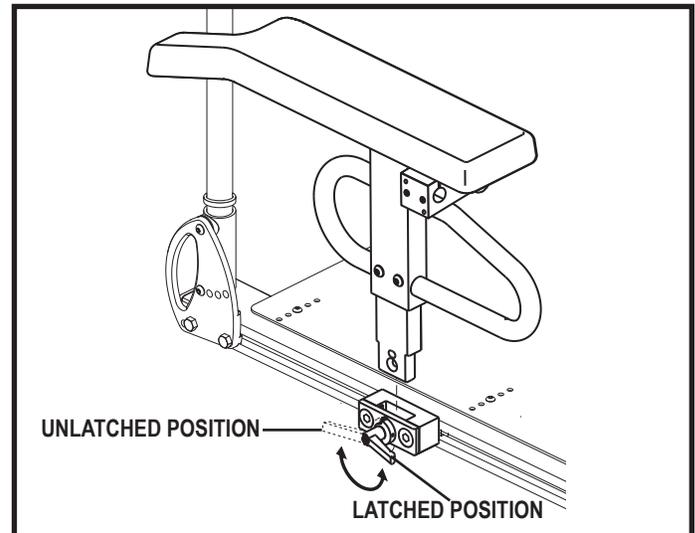


Figure 7. Bariatric Drop-in Armrest Removal/Installation

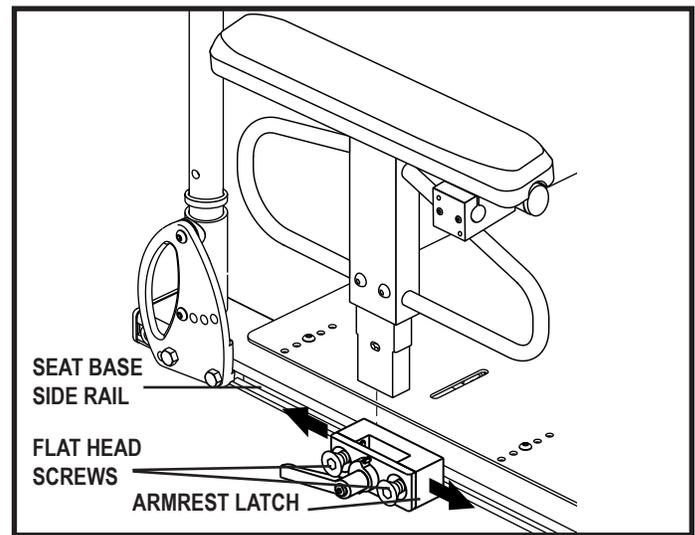


Figure 8. Heavy Duty Drop-in Armrest Position Adjustment

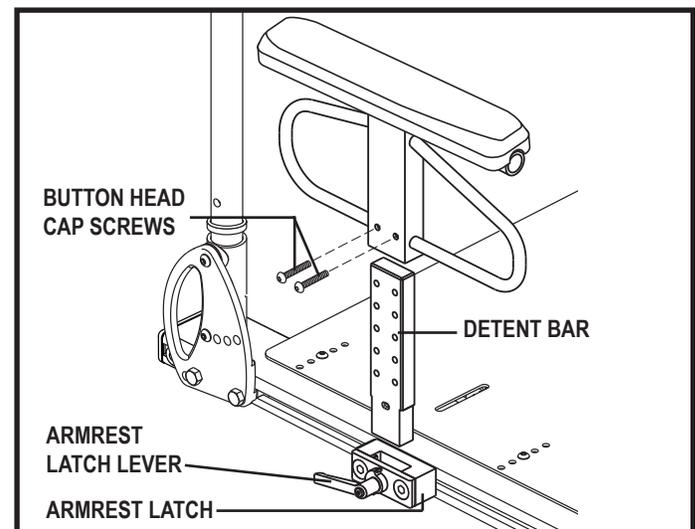


Figure 9. Heavy Duty Drop-in Armrest Height Adjustment

## Cantilever Armrests

The Cantilever Armrests are attached to the seat canes and are designed to lift up and out of the way for easier transfer onto and off of the power chair. Both the angle and the height can be adjusted on the Cantilever Armrests.

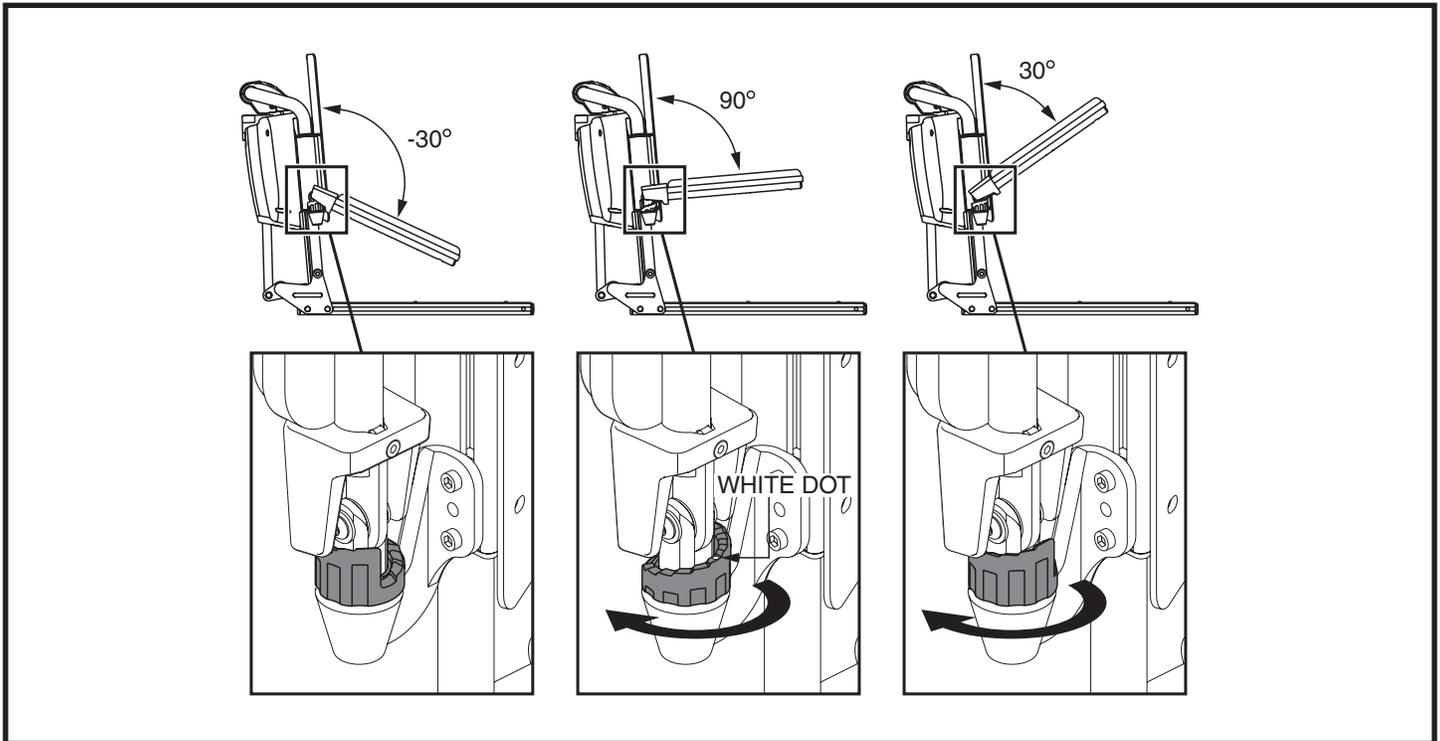


Figure 10. Cantilever Armrests Angle Adjustment

### To adjust the armrest angle:

1. Raise the armrest perpendicular to the floor.
2. Turn the adjustable dial clockwise to change the angle of the armrest. **See figure 10.** The armrest is at 0° when it sits on the white dot of the adjustable dial. From 0°, the angle can be decreased to -30° or increased to 30° in 5° increments. The adjustable dial moves only in a clockwise direction.
3. Move the armrest down into position.
4. Repeat for the other armrest, if necessary.

### To adjust the armrest height:

1. Loosen the two bolts on the armrest bracket. **See figure 11.**
2. Slide the armrest to the desired height.
3. Tighten the two bolts.
4. Repeat for the other armrest, if necessary.

**NOTE:** If your seat is equipped with a push bar, both armrests must be slid at the same time.

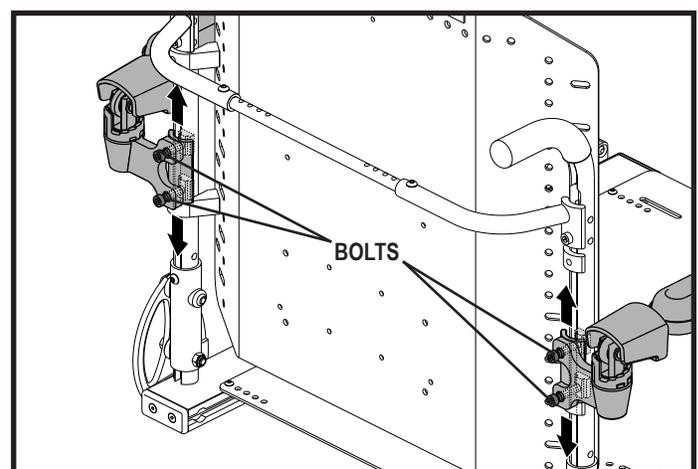


Figure 11. Cantilever Armrest Height Adjustment

## Controller Position

You can position the controller for either left-hand or right-hand use. You can also adjust the extension of the controller from the armrest.



**WARNING!** Do not place the controller harness so that it can be pinched in the seat frame or the power base frame.

### To change the controller position:

1. Turn off the power to the controller.
2. Unplug the controller connector from the power base. Refer to the power base owner's manual.
3. Remove any wire ties securing the controller harness to the armrest.
4. Loosen the mounting screws in the controller mounting block. **See figure 12.**
5. Move the controller mounting block and controller to the other armrest and tighten the mounting screws.
6. Route the controller harness to the back of the power base and reconnect the controller. **See figure 13.**

### To change the controller extension:

1. Turn off the power to the controller.
2. Loosen the setscrews in the controller mounting block. **See figure 12.**
3. Slide the controller into or out of the armrest to the desired position.
4. Tighten the setscrews to secure the controller.

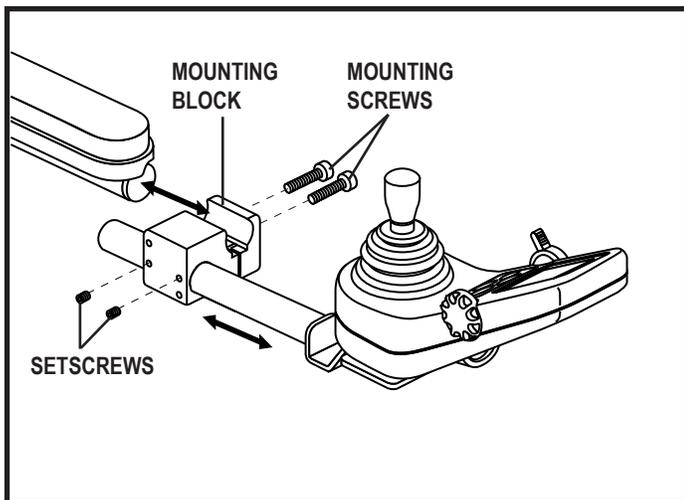


Figure 12. Controller Position (Standard Mounting Block Shown)

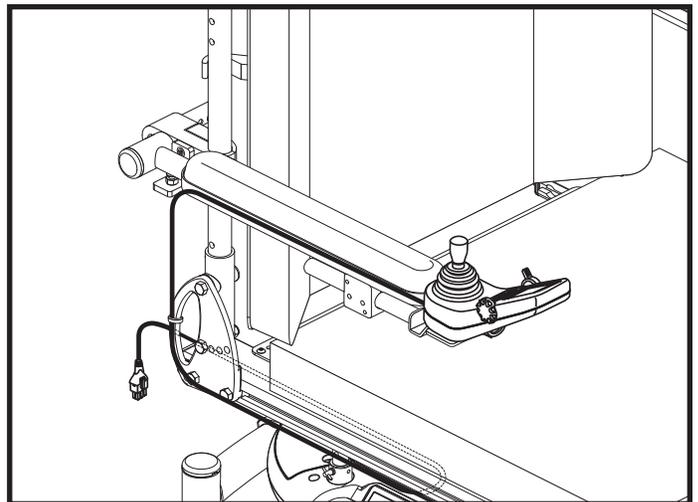


Figure 13. Harness Routing

## Care and Maintenance

- Make sure all hardware is secured properly, but do not overtighten any hardware.
- To clean the seating system, wipe it with a cloth dampened with mild soap and water. Thoroughly dry the unit before using.



**PROHIBITED!** Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.



**WARNING!** Pride strongly recommends that you do not smoke cigarettes while seated in your seating system although the seating system has passed the necessary testing requirements for cigarette smoking. You must adhere to the following safety guidelines if you decide to smoke cigarettes while seated in your seating system.

- Do not leave lit cigarettes unattended.
- Keep ashtrays a safe distance from the seating system.
- Always make sure cigarettes are completely extinguished before disposal.

## Warranty

### Three-Year Limited Warranty

For three (3) years from the date of purchase, Quantum Rehab will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Quantum Rehab to be defective in material and/or workmanship:

- Structural frame components

### Two-Year Limited Warranty

For two (2) years from the date of purchase, Quantum Rehab will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Quantum Rehab to be defective in material and/or workmanship:

- Electronics

### Eighteen-Month Warranty

For eighteen (18) months from the date of purchase, Quantum Rehab will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Quantum Rehab to be defective in material and/or workmanship:

- Actuator

Warranty service can be performed by a Quantum Rehab Provider. Do not return faulty parts to Quantum without prior consent. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of the original purchaser.

### **Warranty Exclusions**

- Upholstery and seating
- Repairs and/or modifications made to any part without specific consent from Quantum Rehab
- Circumstances beyond the control of Quantum Rehab.
- Labor, service calls, shipping, and other charges incurred for repair of the product, unless specifically authorized by Quantum Rehab.
- Damage caused by:
  - Battery fluid spillage or leakage
  - Abuse, misuse, accident, or negligence
  - Improper operation, maintenance, or storage
  - Commercial use or use other than normal

There is no other express warranty.

**Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase and to the extent permitted by law. Any and all implied warranties are excluded.** This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights, and you may also have other rights which vary from state to state.







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